

Amendments to the Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

1. (Currently Amended) An inter-processor communication method for a mobile communication system, the method comprising:

(a) receiving a message transmission request at a router from a connectionless-orientated user, said request including a stream-based message and a destination address of said stream-based message;

(b) determining by said router, whether any one of currently existing sockets, whose file descriptors are stored in a socket management database at the router, is connected to said destination address; and

(c) sending a connection request to a connection manager at said router to be connected to a TCP (transmission control protocol) layer to provide a connection-orientated service to the connectionless-orientated user, if it is determined in the step (b) that none of said existing sockets are connected to said destination address.

2. (Previously Presented) The method of claim 1, further comprising sending said message to said TCP layer if it is determined in the step (b) that any one of said existing sockets is connected to said destination address.

3. (Previously Presented) The method of claim 1, further comprising:
creating a new socket connected to said destination address and attempting to be connected to said TCP layer; and
storing a new file descriptor of said new socket in said database if said attempt is succeeded.

4. (Previously Presented) The method of claim 3, further comprising newly forming a receiving module for said new socket.

5. (Canceled).

6. (Previously Presented) The method of claim 1, further comprising informing said user of an incomplete message transmission, if not connected to said TCP layer for a given period of time.

7. (Currently Amended) An inter-processor communication apparatus for a mobile communication system, the apparatus comprising:

a socket management database storing file descriptors of currently existing sockets;

a message-transmitting module receiving a message transmission request from a connectionless-orientated user, said request including a stream-based message and a destination address of said stream-based message, said module further sending a connection request to be connected to a TCP (transmission control protocol) layer to provide a connection-orientated service to the connectionless-orientated user, if none of said existing sockets are connected to said destination address; and

a connection manager creating a new socket connected to said destination address and attempting to connect said module with said TCP layer after receiving said connection request from said module.

8. (Original) The apparatus of claim 7, wherein said module sends said message to said TCP layer if any one of said existing sockets is connected to said destination address.

9. (Original) The apparatus of claim 7, wherein said manager stores a new file descriptor of said new socket in said database if said attempt is succeeded.

10. (Original) The apparatus of claim 9, wherein said manager forms a receiving module after storing said new file descriptor.

11. (Original) The apparatus of claim 7, wherein said manager waits to receive another connection request if said attempt is not succeeded.

12. (Original) The apparatus of claim 7, wherein said module adds a message header to said message, said header including a message header indicator, a message length, a source address, said destination address, and a message identifier.

13. (Original) The apparatus of claim 12, wherein said module sends said message together with said header to said TCP layer using said new socket.

14. (Canceled).

15. (Currently Amended) A communication method for a mobile communication system, comprising:

receiving a message transmission request containing a stream-based message from a connectionless-oriented user at a connection-oriented router;

formatting the stream-based message into a connection-oriented protocol data unit (PDU) including a source address of the connectionless-oriented user and a destination address; and

transmitting the formatted stream-based message through an existing connection-oriented socket connected to the destination address if the socket exists.

16. (Previously Presented) The method of claim 15, further comprising:

creating a new connection-oriented socket to the destination address if the existing connection-oriented socket does not exist; and

transmitting the message to the destination address using the new connection-oriented socket.

17. (Previously Presented) The method of claim 15, further comprising:

determining if the existing connection-orientated socket connected to the destination address exists by reading a database including all existing sockets.

18. (Previously Presented) The method of claim 15, wherein the connection-orientated router comprises a Transmission Control Protocol (TCP) router including a TCP layer.